

## RF Load 100 Watts High Power To 3 GHz SMA Male

High power RF termination (also called RF load or dummy load) ST3N50PL from Fairview Microwave operates from DC to 3 GHz and handles up to 100 Watts (CW). This SMA termination (or load) has a male gender. ST3N50PL SMA load termination offers 1.25:1 max VSWR.

RF terminations / loads are critical passive components in many RF, microwave and millimeter wave systems where signal reflection from unused ports can reduce the signal integrity can potentially damage the device. By terminating an unused port with a matched load (dummy load), the incident energy will be absorbed with minimal reflection. These radio frequency termination components are commonly used to terminate devices such as couplers, circulators, and switches. Loads / terminations are also widely used in measurement systems to ensure accurate results. Fairview offers a large selection of in-stock RF, microwave and millimeter wave terminations up to 65 GHz with great performance over the entire operating range and with power handling capabilities up to 800 Watts (CW).



### Features:

- High Power RF Load
- DC to 3 GHz Frequency Range
- VSWR 1.25:1 Max
- Max Power 100 Watts (CW)
- SMA Male Coaxial Interface

### Applications:

- Wireless
- SatCom
- Radar Systems
- Test and Measurement
- Commercial and Military Communication

### Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	DC		3	GHz
Impedance		50		Ohms
VSWR			1.25:1	
Input Power (CW)			100	Watts

### Mechanical Specifications

#### Size

Length	0.88 in [22.35 mm]
Width	1.38 in [35.05 mm]
Height	0.56 in [14.22 mm]
Weight	0.1125 lbs [51.03 g]

#### Configuration

Connector	SMA Male
Hex Size	5/16 inch

### Material Specifications

Description	Material	Plating
Connector 1 Contact	Brass	Gold
Body	Copper	Nickel

#### Mechanical Specification Notes:

- Heatsink is required for proper operation.
- Unit is cooled by conduction to heatsink.
- Housing temperature must be maintained at +100°C or less.

### Environmental Specifications

#### Temperature

Operating Range	-40 to +70 deg C
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Fairview Microwave  
 1130 Junction Dr. #100  
 Allen, TX 75013  
 Tel: 1-800-715-4396 / (972) 649-6678  
 Fax: (972) 649-6689  
[www.fairviewmicrowave.com](http://www.fairviewmicrowave.com)  
[sales@fairviewmicrowave.com](mailto:sales@fairviewmicrowave.com)

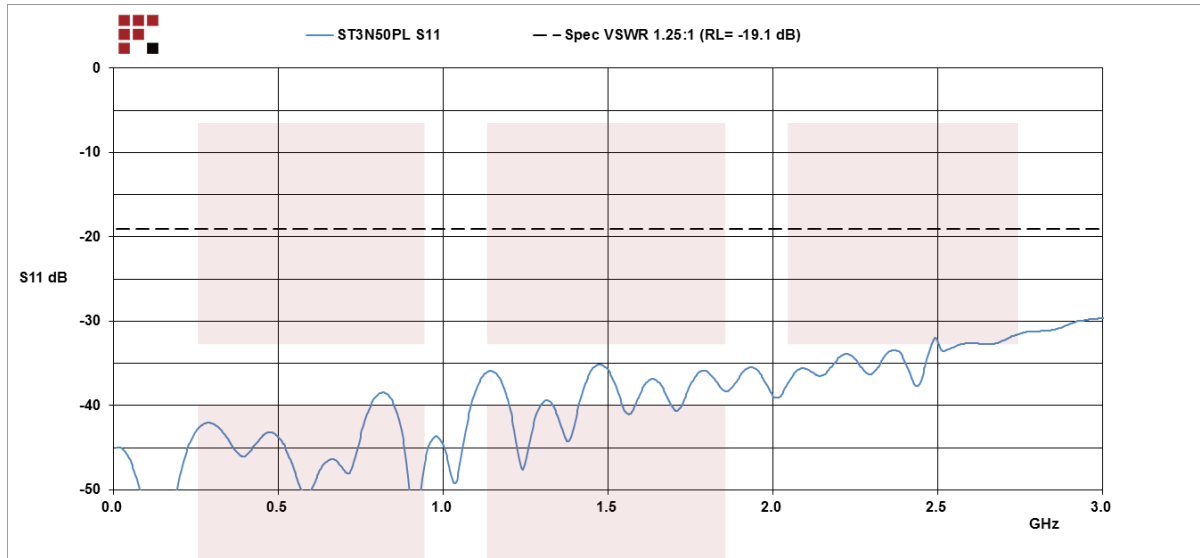
**Compliance Certifications** (visit [www.FairviewMicrowave.com](http://www.FairviewMicrowave.com) for current document)

RoHS Compliant Yes  
 REACH Compliant 12/17/2015

**Plotted and Other Data**

Notes:

**Typical Performance Data**

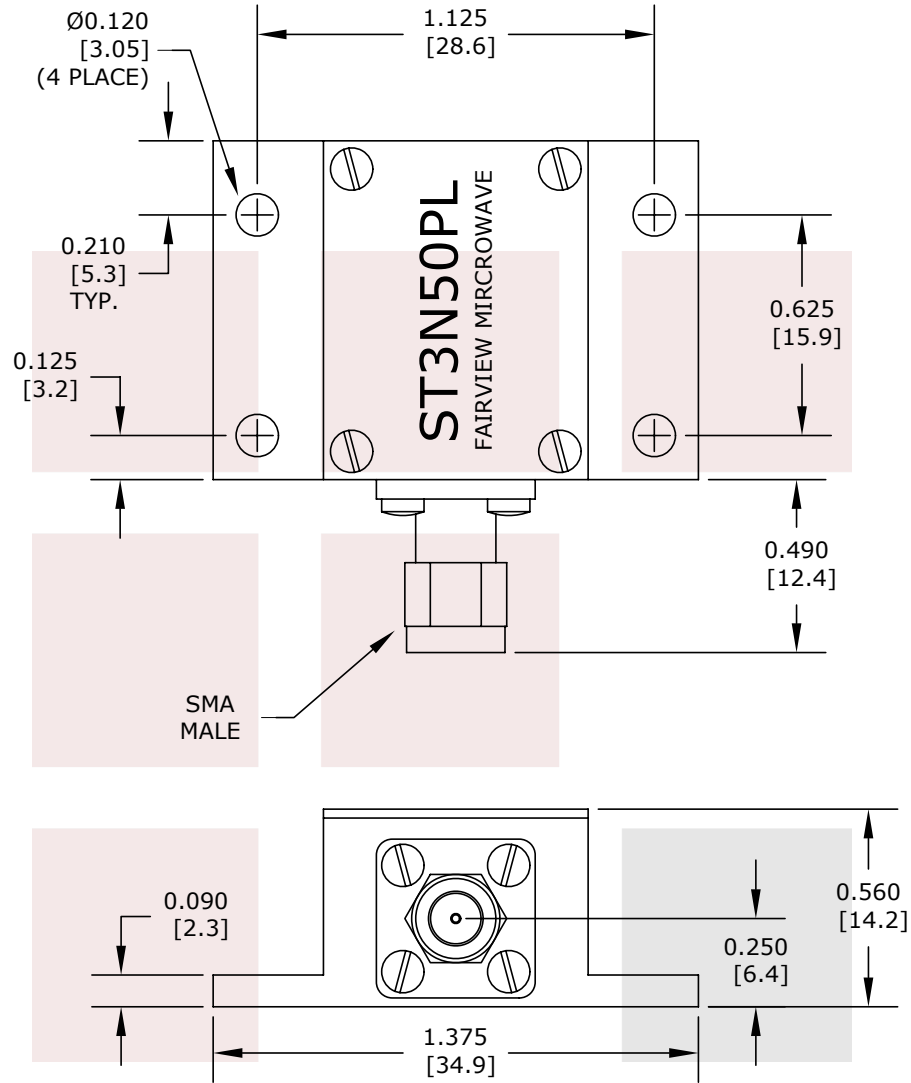


RF Load 100 Watts High Power To 3 GHz SMA Male from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [RF Load 100 Watts High Power To 3 GHz SMA Male ST3N50PL](#)

URL: <https://www.fairviewmicrowave.com/rf-load-50-watts-4-ghz-sma-male-st3n50pl-p.aspx>

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume any liability arising out of the use of any part or documentation.



STANDARD TOLERANCES	
.X	$\pm 0.2$
.XX	$\pm 0.1$
.XXX	$\pm 0.05$

\*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

<b>FAIRVIEW MICROWAVE INC.</b> ALLEN, TX 75013 WWW.FAIRVIEWMICROWAVE.COM		NOTES: 1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL. 2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME. 3. DIMENSIONS ARE IN INCHES [mm].			
TITLE RF Load 100 Watts High Power To 3 GHz SMA Male		DWG NO ST3N50PL		CAGE CODE 3FKR5	
CAD FILE	070716	SHEET	SCALE	N/A	SIZE A 3045